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curate and satisfactory results, perhaps even more so than the common form of barometer, but that there is considerable uncertainty attached to its indications. This uncertainty, far from being wholly attributable to the imperfections of the instrument as a measure of the atmospheric pressure, might, the author thinks, arise from an extreme susceptibility to rapid changes in that pressure, which remain unindicated by the more sluggish barometer.

“On the Decomposition and Analysis of the Compounds of Ammonia and Cyanogen.” By Robert Smith, Esq., Ph. D. Communicated by Captain William Henry Smyth, R.N., F.R.S.

This paper is divided into four parts; the first relates to the decomposition of ammonia and its compounds by the compounds of chlorine, and the collection and measurement of the nitrogen gas which is disengaged, the amount of which the author considers as furnishing a ready and accurate mode of estimating the quantity of ammonia in the solution subjected to analysis. The chloride of lime was the salt usually employed for this purpose: this method is regarded by the author as being peculiarly applicable to the analysis of organic substances.

The second part treats of the decomposition and estimation of hydrocyanic acid and its compounds by means of chloride of lime, yielding nitrogen gas and carbonate of lime; a process which occupies but a few seconds. In some cases, the employment of chloride of soda is preferable to that of chloride of lime, on account of the solubility of all the compounds that are formed. The author found the same method applicable also to the analysis of the salts of cyanogen; for the cyanides of the alkalis are decomposed by it as rapidly as the pure acid itself. The ferro-cyanides are also very readily decomposed.

The author, in the third part of his paper, relates the results of his trials of the hypochlorites as agents for the decomposition of uric acid, which proved so satisfactory as to induce him to believe that these salts might be advantageously used as solvents of uric calculi in the living bladder. He also proposes the employment of chloride of lime as a ready and accurate mode of estimating the quantity of nitrogen contained in urine, from the amount of gas disengaged by its action on the nitrogenous compounds. In the last part, the apparatus used in the experiments is described.

“On a point connected with the dispute about the invention of Fluxions.” By Augustus De Morgan, Esq., M.A., F.R.A.S., &c. Communicated by Samuel Hunter Christie, Esq., Sec. R.S., &c.

An assertion made by Sir Isaac Newton in a letter to Conti, published in Raphson's History of Fluxions, that the materials of the *Commercium Epistolicum* were “collected and published by a numerous Committee of gentlemen of different nations, appointed by the Royal Society for that purpose,” appeared to be at variance with the list of the Committee as it was appointed on the 6th of March, 1711-12, and which only contains the names of Arbuthnot, Hill, Halley, Jones, Machin and Burnet, who were all English. But on